



June 23, 2017

Mr. Don Hallock, District General Manager
IESI PA Bethlehem Landfill
2335 Applebutter Road
Bethlehem, PA 18015

Re: Engineer's Monthly Status Report
IESI PA Bethlehem Landfill
Lower Saucon Township, Northampton County
I.D. No. 100020

Dear Mr. Hallock:

This Engineer's Status Report is for the month of May. The Engineer's meeting was held at the landfill on Thursday, June 8. No monthly meetings were held in April or May due to staffing and scheduling issues. This report is informational only, without deadlines, and a response is required only if objections are taken to the items mentioned.

A. Pending Permit Applications

1. A major modification for the southeastern realignment was received on January 21, 2015. A public meeting was held on May 23 in the township to address any technical issues. The technical review is underway.

B. Construction Schedule

1. Cell 4E, Stage 4 and Cell 4D were being filled at the time of my visit. Average amount of waste accepted was approximately 1000 to 1100 tons per day.

C. Groundwater

1. Monitoring Wells: Total number of wells = 29
2. Abatement Wells: Total number of active wells = 10

D. Gas Management

1. There are 144 vertical gas wells currently installed. There are 42 horizontal collectors in operation.
2. The flare was operating at approximately 1352 scfm and 1650°F at the time of my visit.
3. The BRE plant was operating at 2200 to 2300 scfm at the time of my visit. No odors were observed outside the plant at that time.

Northeast Regional Office

2 Public Square | Wilkes-Barre, PA 18701-1915 | 570.826.2511 | Fax 570.826.5448 | www.dep.pa.gov

ROUTING

- Council
- Manager *orig.*
- Asst. Mgr.
- Zoning
- Finance
- Police
- P. Works
- P/C
- P & R
- EAC
- Engineer
- Solicitor
- Planner
- Landfill
- EMC

other Web

Mr. Don Hallock

June 23, 2017

E. Leachate Management

1. Average daily leachate flows were as follows:
 - a. March – 41,294 gallons
 - b. April – 65,964 gallons
 - c. May – 56,233 gallons
2. Total leachate generated for the last three months was as follows:
 - a. March – 1,208,133 gallons
 - b. April – 1,978,943 gallons
 - c. May – 1,743,251 gallons

All flows went directly to the Bethlehem wastewater treatment plant. The increase in flows in April was likely due to pipe cleanout performed during that time.

F. Site Observations

1. Litter: No issues observed.
2. Odor: No offsite odors were detected at the time of this visit.
3. Daily Cover: No issues observed.
4. Intermediate Cover: No issues observed.

G. Miscellaneous:

Enclosed as part of this report are the monthly Engineer's Reports from IESI Landfill for March, April and May, which include site operations, radiation monitoring, truck safety, leachate management, and report submittals.

If you have any questions concerning this report, please contact me.

Sincerely,



Susan E. French
Waste Management Program

Enclosure

cc: Nicholas Rogers, IESI PA Landfill (w/enc.)
Ms. Leslie Huhn, Lower Saucon Township (w/enc.)
James B. Birdsall, P.E., Hanover Engineering (w/enc.)
Chris Taylor, Hanover Engineering (w/enc.)
Kevin N. Bodner, Martin and Martin, Inc. (w/enc.)

PADEP ENGINEER'S REPORT

March 2017

Date: April 17, 2017

1. Site Operations:
 - a. Average Daily Volume 1375
 - b. Maximum Daily Volume 1800
 - c. Permitted Area 201
 - d. Permitted Disposal area 127.5
 - e. Capped acres 71.8
 - f. Constructed acres 82.7

2. Radiation Monitoring: **March**
 - a. Number of trucks that tripped the monitor 2
 - b. Number of trucks **on hold** or rejected 0

3. Truck Safety & Overweight: **March**
 - a. Number of Overweight Trucks 23
 - b. Number of Trucks Rejected Due To Overweight 0

4. Leachate Management:
 - a. Type of Discharge **Direct to WWTP**
 - b. Total Leachate Generated **March gal.** 1,208,133
 - c. Untreated Effluent Discharge to WWTP 100%
 - d. Average Daily Flow gal. 41,294
 - e. Leachate hauled Offsite 0%
 - f. Detection zone flow (Max/week in g/a/d) **February**
LMC-6 – (55.7) LMC-7 – (36.2) LMC-8– (500.6) PS-1 – (1.5) PS-2 – (<1) PS-3 – (<1)

5. Leachate Storage:
 - a. Total Influent Storage Capacity 1,490,000
 - b. 25% Influent Storage Capacity 372,500
 - c. Current Volume Stored **est. 20% Storm water for Dust Control**

6. Gas Management –Addition of 2 migration probes.
 - a. Number of vertical wells (LFG extraction wells and cleanouts) 144
 - b. Number of horizontal wells 42
 - c. Number of Migration wells 17

7. Groundwater
 - a. Number of monitoring wells 29
 - b. Abatement wells (TW-1 shut off per DEP approval) 10

8. Reports Submitted:
 - Groundwater
 - Leachate
 - Quarterly
 - Other **Form U Submittals** **electronic submittal**

PADEP ENGINEER'S REPORT

April 2017

Date: May 11, 2017

1.	Site Operations:		
a.	Average Daily Volume		1375
b.	Maximum Daily Volume		1800
c.	Permitted Area		201
d.	Permitted Disposal area		127.5
e.	Capped acres		71.8
f.	Constructed acres		82.7
2.	Radiation Monitoring: April		
a.	Number of trucks that tripped the monitor		1
b.	Number of trucks on hold or rejected		0
3.	Truck Safety & Overweight: April		
a.	Number of Overweight Trucks		21
b.	Number of Trucks Rejected Due To Overweight		0
4.	Leachate Management:		
a.	Type of Discharge	Direct to WWTP	
b.	Total Leachate Generated April gal.		1,978,943
c.	Untreated Effluent Discharge to WWTP		100%
d.	Average Daily Flow gal.		65,964
e.	Leachate hauled Offsite		0%
f.	Detection zone flow (Max/week in g/a/d) April		
	LMC-6 – (55.7) LMC-7 – (36.2) LMC-8 – (500.6) PS-1 – (1.5) PS-2 – (<1) PS-3 – (<1)		
5.	Leachate Storage:		
a.	Total Influent Storage Capacity		1,490,000
b.	25% Influent Storage Capacity		372,500
c.	Current Volume Stored est. 20% Storm water for Dust Control		
6.	Gas Management – Addition of 2 migration probes.		
a.	Number of vertical wells (LFG extraction wells and cleanouts)		144
b.	Number of horizontal wells		42
c.	Number of Migration wells		17
7.	Groundwater		
a.	Number of monitoring wells		29
b.	Abatement wells (TW-1 shut off per DEP approval)		10
8.	Reports Submitted:		
	Groundwater	Quarterly Groundwater Report	
	Leachate		
	Quarterly	Quarterly Operations Repor/Fees	
	Other	Form U Submittals	electronic submittal

PADEP ENGINEER'S REPORT

May 2017

Date: June 8, 2017

1. Site Operations:
 - a. Average Daily Volume 1375
 - b. Maximum Daily Volume 1800
 - c. Permitted Area 201
 - d. Permitted Disposal area 127.5
 - e. Capped acres 71.8
 - f. Constructed acres 82.7

2. Radiation Monitoring: **May**
 - a. Number of trucks that tripped the monitor 1
 - b. Number of trucks **on hold** or rejected 0

3. Truck Safety & Overweight: **May**
 - a. Number of Overweight Trucks 12
 - b. Number of Trucks Rejected Due To Overweight 0

4. Leachate Management:
 - a. Type of Discharge **Direct to WWTP**
 - b. Total Leachate Generated **May** gal. 1,743,251
 - c. Untreated Effluent Discharge to WWTP 100%
 - d. Average Daily Flow gal. 56,233
 - e. Leachate hauled Offsite 0%
 - f. Detection zone flow (Max/week in g/a/d) **May**
LMC-6 – (13.5) LMC-7 – (59.9) LMC-8– (45.4) PS-1 – (1.4) PS-2 – (<1) PS-3 – (<1)

5. Leachate Storage:
 - a. Total Influent Storage Capacity 1,490,000
 - b. 25% Influent Storage Capacity 372,500
 - c. Current Volume stored **est. 20% Storm water for Dust Control**

6. Gas Management –Addition of 2 migration probes.
 - a. Number of vertical wells (LFG extraction wells and cleanouts) 144
 - b. Number of horizontal wells 42
 - c. Number of Migration wells 17

7. Groundwater
 - a. Number of monitoring wells 29
 - b. Abatement wells (TW-1 shut off per DEP approval) 10

8. Reports Submitted:

Groundwater	Quarterly Groundwater Report	
Leachate		
Quarterly		
Other	Form U Submittals	electronic submittal